## Discretes

### Discrete Diode

#### Leaded

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#### Surface mount

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#### Stud screw fit

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### Capsule

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### Chip

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### Discrete Thyristor

#### Stud screw fit

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#### Capsule

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# Discretes - Diodes - Leaded

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<th>$I_{FSM}$</th>
<th>$T_A$</th>
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<th>$V_{A}$</th>
<th>$I_{P}$</th>
<th>$V_{R}$</th>
<th>$R_{th(j-L)}$</th>
<th>$T_J$</th>
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<th>Circuit</th>
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<td>60</td>
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## Discretes - Diodes - Leaded

### Schottky

<table>
<thead>
<tr>
<th>Type</th>
<th>$V_{RM}$</th>
<th>$I_{D}(@T_A)$</th>
<th>$P_{T(25°C)}$</th>
<th>$I_{SM}(@T_F=25°C)$</th>
<th>$I_{VBR}$ @ $T_F$</th>
<th>$I_{FSM}(@T_F=25°C)$</th>
<th>$R_{th(j-L)}$</th>
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<th>Case</th>
<th>Circuit</th>
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<td>0.6</td>
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<td>-50 ... +150</td>
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### High Temperature Schottky

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<th>$P_{T(25°C)}$</th>
<th>$I_{SM}(@T_F=25°C)$</th>
<th>$I_{VBR}$ @ $T_F$</th>
<th>$I_{FSM}(@T_F=25°C)$</th>
<th>$R_{th(j-L)}$</th>
<th>$T_J$</th>
<th>Case</th>
<th>Circuit</th>
</tr>
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<tbody>
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<td>1.7</td>
<td>-50 ... +175</td>
<td>8 x 7,5</td>
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### Transient voltage suppressor

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<tr>
<th>Type</th>
<th>$V_{WM}$</th>
<th>$I_{D}(@T_A)$</th>
<th>$P_{T(25°C)}$</th>
<th>$I_{SM}(@T_F=25°C)$</th>
<th>$I_{VBR}$ @ $T_F$</th>
<th>$I_{FSM}(@T_F=25°C)$</th>
<th>$R_{th(j-L)}$</th>
<th>$T_J$</th>
<th>Case</th>
<th>Circuit</th>
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<tbody>
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<td>200</td>
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<td>8</td>
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<td>5.4 x 7,5</td>
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<td>6.45-462</td>
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<td>-50 ... +175</td>
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<td>600</td>
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<td>100</td>
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<td>-50 ... +175</td>
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<td>40</td>
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<td>15</td>
<td>-50 ... +175</td>
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# Discretes - Diodes - Leaded

<table>
<thead>
<tr>
<th>Cases</th>
<th>DO-15</th>
<th>DO-201</th>
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<tbody>
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Dimensions in mm

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### Discretes - Diodes - Surface Mount

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## Discretes - Diodes - Surface Mount

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<th>$V_T \at T_T=25,^\circ C$</th>
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| **Schottky**      |               |       |                  |       |                               |                            |         |          |                               |           |       |       |         |
| SK 12 ... SK 110  | 20-100      | 1     | 100 | 30 | 0.5-0.85 | 1 | 0.5 | 30 | -50 ... +150 | SMA       |       |       |         |
| SM 5817 ... SM 5819 | 20-40     | 1     | 100 | 30 | 0.75-0.9 | 3 | 1   | 10 | -50 ... +150 | MELF      |       |       |         |
| SMS 120 ... SMS 1100 | 20-100   | 1     | 100 | 30 | 0.5-0.79 | 1 | 0.5 | 10 | -50 ... +150 | MELF      |       |       |         |
| SK 22 ... SK 210   | 20-100      | 2     | 100 | 50 | 0.5-0.85 | 2 | 0.5 | 15 | -50 ... +150 | SMB       |       |       |         |
| SMS 220 ... SMS 2100 | 20-100    | 2     | 100 | 50 | 0.5-0.79 | 2 | 0.5 | 10 | -50 ... +150 | MELF      |       |       |         |
| SK 32 ... SK 310   | 20-100      | 3     | 100 | 100 | 0.5-0.85 | 3 | 0.5 | 10 | -50 ... +150 | SMC       |       |       |         |

| **Transient voltage suppressor** |               |       |                  |       |                               |                            |         |          |                               |           |       |       |         |
| 1,5 SMCJ 6,5 ... 1,5 SMCJ 180CA | 6,5-150     | 0.0000005 | 1500 | 25 | 100 | 7,2-231 | 1-10 | 10 | -50 ... +150 | SMC       |       |       |         |
| P4 SMAJ 6,5 ... P4 SMAJ 180CA | 6,5-130     | 0.0000005 | 400 | 25 | 40 | 7,2-231 | 1-10 | 30 | -50 ... +150 | SMA       |       |       |         |
| P6 SMBJ 6,5 ... P6 SMBJ 180CA | 6,5-130     | 0.0000005 | 600 | 25 | 100 | 7,2-231 | 1-10 | 15 | -50 ... +150 | SMB       |       |       |         |
| TGL 41-520C          | 423         | 0.0000005 | 400 | 25 | 40 | 470-570 | 1 | 10 | -50 ... +150 | MELF      |       |       |         |
| SDA 2AK, SDA 4AK    | 0,5-1       | 0.001  | 300 | 25 | - | 0,8-2 | 1000 | 0 | -50 ... +150 | MELF      |       |       |         |
| TGL 41-6,8 ... TGL 41-400CA | 5,5-342  | 0.001  | 400 | 25 | 40 | 6,12-420 | 1-10 | 10 | -50 ... +150 | MELF      |       |       |         |

| **Zener**           |               |       |                  |       |                               |                            |         |          |                               |           |       |       |         |
| ZMY 1 ... ZMY 200 (1,3W) | 0,71-212 | 0.0025 | 1,3 | 50 | 1,5-90 | 0,5-1 | 10 | -50 ... +150 | MELF      |       |       |         |
| SMZ 1 ... SMZ 200 (2W) | 0,71-212 | 0.005  | 2 | 50 | 1,5-90 | 1 | 10 | -50 ... +150 | MELF      |       |       |         |
| SZ3C 1 ... SZ3C 200 (3W) | 0,71-212 | 0.005  | 3 | 50 | 1,5-90 | 1 | 10 | -50 ... +150 | MELF      |       |       |         |
| Z1 SMA 1 ... Z1 SMA 100 (1W) | 0,71-106 | 0.005  | 1 | 50 | 1,5-75 | 1 | 30 | -50 ... +150 | SMA       |       |       |         |
| Z2 SMB 1 ... Z2 SMB 200 (2W) | 0,71-212 | 0.005  | 2 | 50 | 1,5-90 | 1 | 15 | -50 ... +150 | SMB       |       |       |         |
| Z3 SMC 1 ... Z3 SMC 200 (3W) | 0,71-212 | 0.005  | 3 | 50 | 1,5-90 | 1 | 10 | -50 ... +150 | SMC       |       |       |         |
## Discretes - Diodes - Surface Mount

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Dimensions in mm
## Discretes - Diodes - Stud Screw Fit

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### Standard recovery

### Fast recovery

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## Discretes - Diodes - Stud Screw Fit

### Avalanche

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### Cases

#### E7 / E8 / E10 / E11 / E31

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#### E9 / E12 ... E17

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Dimensions in mm
# Discretes - Diodes - Capsule

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<th>$I_{SM}$ @ $T_F = 25^\circ C$</th>
<th>$V_F$ @ $I_F$ @ $T_F = 25^\circ C$</th>
<th>$I_{p-f}$</th>
<th>$R_{th(j-c)}$ per chip</th>
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## Cases

![Diagram of SKN 4000 and SKN 6000 cases](image)

Dimensions in mm
## Discretes - Thyristor - Stud Screw Fit

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**B1 ... B3**

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Dimensions in mm
## Discretes - Thyristor - Capsule

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**B8 ... B20**

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Dimensions in mm
## Discretes - Chips - SEMICELL

| Type             | $V_{fM}$ | $I_f$ @ $T_j=150°C$ | $I_{fM}$ @ $T_j=150°C$ | $V_f$ @ $T_j=25°C$ | $I_f @ V_f$ @ $T_j=25°C$ | $Q_e$ @ $T_j=125°C$ | $Q_e$ | $μC$ |
|------------------|---------|---------------------|------------------------|-------------------|--------------------------|---------------------|-------|
| **600 V - Freewheeling Diodes CAL I3 Fast** |         |                     |                        |                   |                          |                     |       |
| SKCD 06 C 060 I3 | 600     | 15                  | -                      | 1.35              | 10                       | 0.7                 |       |
| SKCD 09 C 060 I3 | 600     | 20                  | 100                    | 1.35              | 15                       | 1.2                 |       |
| SKCD 18 C 060 I3 | 600     | 30                  | 200                    | 1.35              | 25                       | 2.5                 |       |
| SKCD 31 C 060 I3 | 600     | 50                  | 440                    | 1.35              | 50                       | 3.3                 |       |
| SKCD 47 C 060 I3 | 600     | 80                  | 720                    | 1.35              | 85                       | 5.5                 |       |
| SKCD 61 C 060 I3 | 600     | 100                 | 1000                   | 1.35              | 110                      | 7                   |       |
| SKCD 81 C 060 I3 | 600     | 150                 | 1260                   | 1.35              | 155                      | 8.5                 |       |
| SKCD 121 C 060 I3 | 600    | 210                 | 2100                   | 1.35              | 245                      | 10.7                |       |
| **1200 V - Freewheeling Diodes CAL I3 Fast** |         |                     |                        |                   |                          |                     |       |
| SKCD 06 C 120 I3 | 1200    | 10                  | -                      | 2.00              | 5                        | -                   |       |
| SKCD 11 C 120 I3 | 1200    | 15                  | -                      | 2.00              | 10                       | -                   |       |
| SKCD 18 C 120 I3 | 1200    | 25                  | 180                    | 2.00              | 15                       | 2.7                 |       |
| SKCD 23 C 120 I3 | 1200    | 30                  | 250                    | 2.00              | 25                       | 3.7                 |       |
| SKCD 31 C 120 I3 | 1200    | 40                  | 350                    | 2.00              | 35                       | 4.5                 |       |
| SKCD 47 C 120 I3 | 1200    | 55                  | 550                    | 2.00              | 55                       | 8                   |       |
| SKCD 61 C 120 I3 | 1200    | 75                  | 720                    | 2.00              | 70                       | 11                  |       |
| SKCD 81 C 120 I3 | 1200    | 100                 | 900                    | 2.00              | 100                      | 15                  |       |
| SKCD 121 C 120 I3 | 1200  | 150                 | -                      | 2.00              | 155                      | -                   |       |
| **1700 V - Freewheeling Diodes CAL Fast** |         |                     |                        |                   |                          |                     |       |
| SKCD 47 C 170 I | 1700    | 55                  | 550                    | 2.05              | 55                       | 15                  |       |
| SKCD 61 C 170 I | 1700    | 75                  | 720                    | 2.05              | 75                       | 19                  |       |
| **1200 V - Freewheeling Diodes CAL I4 Fast** |         |                     |                        |                   |                          |                     |       |
| SKCD 08 C 120 IF | 1200    | 8                   | 36                     | 2.33              | 8                        | 0.4                 |       |
| SKCD 11 C 120 IF | 1200    | 15                  | 65                     | 2.38              | 15                       | 0.6                 |       |
| SKCD 16 C 120 IF | 1200    | 25                  | 100                    | 2.41              | 25                       | 1                   |       |
| SKCD 22 C 120 IF | 1200    | 35                  | 170                    | 2.30              | 35                       | 1.6                 |       |
| SKCD 31 C 120 IF | 1200    | 50                  | 270                    | 2.22              | 50                       | 2.6                 |       |
| SKCD 46 C 120 IF | 1200    | 75                  | 430                    | 2.17              | 75                       | 4.2                 |       |
| SKCD 46 C 120 IF R | 1200 | 75                  | 430                    | 2.17              | 75                       | 4.2                 |       |
| SKCD 53 C 120 IF | 1200    | 100                 | 550                    | 2.20              | 100                      | 5.4                 |       |
| SKCD 81 C 120 IF | 1200    | 150                 | 900                    | 2.14              | 150                      | 8.7                 |       |
### Discretes - Chips - SEMICELL

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